PROCESSING AND COMMACTERIZATION OF COPPER INDIANA SELLINGS TOR PROTOTOGY THE ARM STATIONS

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PROCESSING AND CHARACTERIZATION OF COPPER DESIGN SELENCE FOR PROTOVOLENIC APPLICATIONS

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Figure 1.2 Behavior error-sensor of the mobile reserves with the equivalent casult

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THEORY AND PROCEDURES FOR ASSESSED.

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Figure 3.1 As discretion of Massach supports

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Figure 3.2 Elements and functions of the Cripital approach

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(2.5)

3.2.2 Models Six selection places
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(2.4)

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5, -a, -b, T + a, T a) (2.6)

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Figure 3.2 Assessed beat separate the loqued substants along with experimental due





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place of C₂(T) and G H₂₀₀(T) and cycles in Total 5.10, 3.11 and Figure 3.8.



Figure 2.4 reported heat copacity for Endg) at the range T=276 to 2009.



Figure 3.1 New expectly for $So_{i}(g)$ at the $so_{i}(x) = 2000$ is



Figure 1 6 Fired limit organity for Sety) and Sery) on the range 2+298 to 2000.

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Strong et al (\$364.54)	Menapersoncy	13436 CED

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As with a fit freshive study of frontier value question [5] (a), [1] (b), [1] is a beautiful for a fit fresh fresh a beautiful fresh fit fresh tesh fresh fresh for a fit fresh [5] (b), [2] (c), [3] (c), [4] (c

here Figure 3.7 three-the account G(C) storp with data from other authors. That is of the executed G(C) and G H₁₀₄(T) are given in Tables 3.05 and 3.13 inappearably 3.3.3.5 for

The values of the marked enthips of farmaco obscurt from subcases are small on Table 1.4. The entropy value, $S^*_{\rm coll} = 615.56$ MK and aquatal to Review be a small or the same of t

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Authors	Metod	MOnes
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	Vigor density revisioners	
Meaning of of \$50x 73)		15131 (41)
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risang or et (film \$1)	Мен фольтоту	191.99 (D) 191.94 (D)
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Figure 1.2 showed the solerood C₂(T) along with data from other without The results of evolution C₂(T) and G-H_{2,2}(T) are given in Tables 1.15 and 3.13, respectively.

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The relate of the models entirity of formation obtained from vacuus investigation are lated as Table 3.5. The entirity value, $Y_{\rm TM} = 0.07$ 75 Moust, was colorized from the melospic entertain breefity (flux 91) and (Figs. 91).

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Table 3.5 Search of endodys of Economic size for Se, q_O

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		1149 47 (11)
Enighted and Euclid 1 (for (C))	Man specionary and sixtrodistrical Knodescoall	13733 (0)
Kellur and [Kell 7:]	Mass spectromery and electrochemical Economical	197 SO (E)
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restriction on both in Table 3-6. The analysis of principal principal control from [East 51] at the control of the control of

with a method ferridate value 0.91 kHzol and agree wall was the second law value. The value $\delta H_{\rm DM} \sim 90.9 M_{\odot} \times 0.0$ kHzol or released $T_{\rm BMS} \times 3.5$ shows the evaluate $C_{\rm p}(T)$ when slong with which from other matter anches The models of $C_{\rm p}(T)$ and $G_{\rm BMS}$ (T) as also an Table 1.0 to all 1.0 measured.

Table 3.6	Ти као	dat ex	dulyy	diami	or 660.5	of Berger

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Yomaingue and Furne [Yess VI]		
Kinder et al' (Kon 11)	Nan spekismeny sol Electroherosá krosken relá	186 (B) HILLS (B)
		39210 (0)
Greeky wind [Ga 83]	Anguited at the parameter of the paramet	36923 (E) 35518 (E)
Hungerel (Nan 94)	Phu quasimay	19948 (E) 19219 (EI)
Drowst et el [Sto 64]	Managemoney	190 H (R) 182 S2 (B)

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The their has values dulived their (Sel 71) are with seasoned, with a market decrease of 0.28 killed, and agree will with the season law value. Then the value Affair 1910 of 1.01 follow), a strong of the work. Figure 1.9 shows the evolution $C_{p}(T)$ data along with data from other authors. The results of $C_{p}(T)$ and $C_{p}(T)$ are some or $T_{p}(t)$ and $T_{p}(T)$ $T_{p}(T)$ and $T_{p}(T)$ are some o

Authors	Medical	Mfcress 04/mil
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Figure 3.1 Have expectly of Set (g) and Set (g) in the responsive range 294 to 2000.

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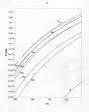
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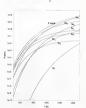


Figure 3.11 Equilibrium vojos praesars over liquid selemans as the reopenius; raspo $T\!=\!800\,\mathrm{K}$



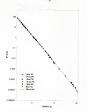


Figure 5.11 Experimental and somewhated band report persons over liquid admission in the interesters range 494 to 1500 K.

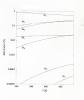




Figure 3.15 Equilibrate selection report temperature over Equil solution in the temperature maps $T\!=\!194\,\mathrm{m}\cdot150\,\mathrm{K}$



Figure 3.10 Debut ded thes croporation file, (g) flex flore begand selements you

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Plane	Temperature Some (B2)	Coefficients in C/(T) expression Committee T
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	740-1296	
		a - 52 400 A - 4595 x 16 1 c = 3 250 a 10 1
	1000-1150	1 - 5 200 h - 2 000 k (6" 4 - 2 12) k (2"

Temperature Europe (N2)	Coefficients of C(T) expressive
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600 - 2000	# 194 000 to - 42% # 10 " # - 4385 # 10 " # - 1254 # 11
	# " N2 579 h - # 477 x 10 " # = -1490 x 16 " d = -5.251 x 51
258 15 - None	
	a - 27 San b - 4 604 c 60" p - 4 300 x 16" d7 662 x 16
	1-1824H 2-4336 (0) 1-4 (0) 12 4-744 (1)

Place	Traposter East (%)	Gefficient in (G-N ₁₋₁) regarded G-N ₁₋₁ = A + BT = CTRT = BE*+ET*-ET* Ghade
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	464 2 - 750 *	A - 1007 A - 57 57 600 C 19 74 B 0 812255 E - 0 2677 - 10 F - 0
	NO - 1350 *	A = -1000 (7 S = 150 33422 C = 20 502 (B = 0 E = 0 S = 0
Liquid	2915-4963++	A - 1909 20 B - 181 K OH2 C - 52 A D + O SORES
	474 s - 3000	A = -1409 30 S = 201 H1342 C = -32 6 D = 0 c00403 E = -0.565 x 10 * F = 0
	186-120	A - 84320 a 10 * F - 0 8 - 8 3220 a 10 * F - 0
	1150-1500	A - 160 (1 8 - 125605 C - 16 (9-9

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A CRETICAL ASSESSMENT OF THEODODYNAMIC AND PHASE DRAGRAM DAYS FOR THE CU SC BENNET SYSTEM

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4.11 m Co. A

The socioted entities of filmensis, $\delta U(x_{11}, x_{12}, x_{13})$ in the ΔC_{23} in the statement of the proved architecture of the following is communicated in Table 4.1. Controve efficiencials (CGs. 50) reported is solve of $\delta U(x_{12}, x_{12}^{-1}) + 2 \delta \Delta D_{100}$, by the data stretches indimension. Showed liver agreement is sold with the complexity of cold to recover the Coldes among a filmension of C_{23} is solved in the various insequence. When the C_{23} is also among a filmension of C_{23} is also in a various insequence. When the C_{23} is also among a filmension of C_{23} is also in a various insequence in C_{23} in C

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Author	Method	Publication (
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411 Terrinal Solid Sciences

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$$^{4}S^{2} - M(p_{11}h_{1}p_{11} + p_{11}p_{1}h_{1}p_{11}p_{1} + p_{2}h_{2}p_{2})$$
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To reduce the number of parameters, the following entrions we used as the optimization (Am EL, $2 \ln 99 \|$

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Figure 6.3 Calculated obsessed potential of Br on the logical phase stong with the experimental stone [16.6m, 71834]. The reference state is the logical phase of pure solutions.



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Figure 4.5 Celephord Se, parted premises on the Co-Se system (cont) along with the experimental data (798xx)

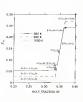


Figure 4-9. The calculated also discloses of Ca variety on the first sublishmen for the (i) Cu₁ Ne place



Figure 4.7 The colonised and Stations of Servenney at the second pollution for the St Cap September 2.



A CRITICAL ASSESSMENT OF THE MODIFICACION AND PERSE DESIGNAD DATA FOR THE PERSENCE AND PERSE DESIGNAD.

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	241-500-	A - WHITE - MITAL CO-SHIED -
Liquid	2825-943	A - MICH B - MEXIAL C - MAIN FISHES
	454.4 - 2000	A - MINTER E - MANUAL C - 10 4 S - 4 (6) CH
	200 1101	A-BOUNT R-NUMBER C NUMBER BOOKEN
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(Pag 11)*		
(Nov 11)*	Vigor pressure (person/Kentlers)	347

Table 5.5 Executed 15 solves for both

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		D40	
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	264.9		

Table 5.1 Assessed less conside for basins

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Table 5.5 Search of and object of formation values at 298-15 K, $\delta\delta T_{\rm GH \ List}$ of the Se composable

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les far;	210 72 - 42 HA 4 10 "T - 2 5 4 10" T"	299-953	This work
(m, Se)	148 NRS - 6 TO X 16 T	126494	[MI(N)
br5e	- 1 70 x 10" T" - 8 40 x 10" T"	129-128	[Mil70]
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511 Cm r

The decreate-power data for the present models (high line Sugal Inches) and Infely) and Associated high Sugal Inches and Infely) are maded by Sud 68 Ger 11. Ger 101 and numeral the SUR 100 and using Surface and Surface and

Брионг	Temperature Sarge (K)	Coefficients of G. Hern) expension Dellara - A + BT + CThT + BT + ET + ET (U/E+ mol)
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lojie(g)	298 11 - 3000	A - 120075 41 M - 1231400 C - 15 1602 D - 100000449 F - 12001 4 10 * F - 171400
1610	294 15 - 2000	A - 22902 % B - 41145 C - 313300 D 28000454 E - 8005 x M * D - 155 B

Species	Temporters Nesper(N)	Goefficient in (E-Hara) expression (GHara - A + RT + CToC + DE*+61*+87 (GFF) and
le(y)	216 13 1100	A THORTON B 01779731 C 01436 B 01077731 E 10737431 E 0 7 F 1074 1
	630 - 1190	A - 27564 GS B - 170 32 GT C - 8 400221 B 0 8256547 E - 2 27 (662) 3 8 9 7 7 - 170 (74.25
	1100 - 2800	A = 214082 400 B = 118 64779 C = -41 M(N) B = 800021417 E = -2 321809 m E0 F = 2817067

to Toront Photo

\$4170F resummer

Shazahar or of 1960 XI procured the salaran salarity in the importance region. SI to 1718 K by determinent time in its raw place dimension. Bythe Mr. (Delha), 1660—1660 Collect, Double-felde Belghe, should be sovered as higher and higher should be exercised by Mode. More remotily Melikhar of or 1964 199 amounted the orbiton accuracy as salid and logisd Quidence is released polarance to 50 most per exert selection.

5.4.1 Yigor promise minimorates

The following are appears were represent to exist as finding states, Sealor I as 50 on Seg. Indexig., Indexig. and Indexig. Sealor Indexig. Se

Cole and Downel (Col. III) described the profile procure as equilibrous with liquid list for Mandess cell rememphormacy. In their corresponds, the constitution profile empression are not consented, also in this first the service remember remove. Now, 3/10/6/61 second approximately with temperature. Ordering of all [30:11] model the amounts of any type pressure down health field by Soundern queunt gauge and distription commonstructure. In this distribution contribution. Solitoneous of In-Sec(s) has been moded by consequences (Blue Of) inserts or Knother officials (You Yie Fai Hi Bur Hi Sai Yi Sai S), and are detail commands (In Tig) In-Sec(s) was reposted to address compressity according to the restricts (Bur Hi You'ld Bur Hi).

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or the experimental confidence. One research can wrother to the first time the reflexion process now change the condensed above concession. The office was shown as conducted place was not the hadward our place distract for a hand-hadw records or

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In Se (seled)	Total promuse (Dawning grage) and IR.	30n 71]
leghts (solid)	Pariel present (Knober or I man spectroscop)	(Ber cv)
rhope (selet)	Tatal pricings and SE synchronogy	(On 72)
Sir Key bode/s	Tank partner (Knobes and toming)	
HoSmorko Hand In Se	Tenti prosece (Knoden end society)	(36.19.17)

America Modele

1.5.1 Park elements and appalacement, conserved above

The Gallin energy of Cu is taken from [Den 91], and that of Se is those [Clie 90]. The three-form equation grows below in used to expressed the congruence dependence of

When "G is the standard Griffs energy. T is the elsevier temperature, and x_i is and z interiorist whose volume and in the determinant from exportances than

517 Liquid Floor

The association model developed by Eleve III] was used to describe the Cibis among of the logical plane higher, as for most realls composed in their greats, which is stake on 1100 K. and composed modes or the looperature. The European control is the looperature, the European control is not incomposition and the Cibis and the European control of the European Cibis and Europea

k, Indo. S

The Gibbs energy of the phase (per 1 state of states) can also be expensed by equation (2) where for should be explicated by (d) laquet). The series $^{(i)}C^{(i)}$ expecting

where p_i radical to this sate functions of the operators, with $p_{in} = p_{in} p_{in} = 1$. The present

The ideal annually district energy ${}^4{\rm G}^{\prime}$ as equal to

$$^{2}C^{2}=\mathcal{F}_{2}\mathcal{F}_{2}g_{2}g_{3}f^{2}f_{2}^{2}g_{3}g_{3}g_{4}+^{2}f_{3}g_{3}g_{3}g_{3}^{2}f_{2}g_{3}-\mathcal{F}_{3}g_{3}g_{3}^{2}f_{3}$$

where the floar series is represent the connections between the aproper. They can be excremed to the forecast of temperature

5.4 Options and Providing

A minor is of the control passes of posses angular adal was used for the optimization of the control passes and all places as the system. The optimization was preferred by using the PARKOT mobile of the Thermo-Col; progress which the DS and providers in the colors.

For some difference of the Gills care production of the medium compared for the Gills care production from the State About State Sta

redulper of transien, standard melopies and place diagram first. Finally a

Table 111 Optioned promotes according to the architical description of the places.

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- - 121681 13-770 510017-151 Ball (0011-17-000)

Tamperature (T) in an Kolona. The Golden rearry on one as him

5.7 Bends and Decompos

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controlled bytes by one wholey pre-species ent on the companion of problems of the particular data of the six bytes whoshed pre-species data of \$50 to \$10 t

 with the conservances of [Set Ti]. The subsidied Tip this strong the β -logic, logarity and with the conservances of [Set Fi] and [Fix δ Fi].

methods adorated value (Skx 67). They value was obtained by dever medicals of a lades as a look salaranter. The coefficient common was confined by Xoor of Demeter, rules for in, So or much more regarded that the value derived than EMI measurement of Difer TKI and about to the value by DMI SKI. It was also found that the collector of formation value for India, in much more requires than the value analyses if in contributes of Common constant or the disspansions of Engles phase in the calculated Tric.

coloried her capacity data for a laules, plants, β faules, inches and late along with

the measured data by (Mid 7K) are given in Pagare 5.6.5.5.5 and 5.10 inappearably. The individuous values narve well with the measured once.

5 F Condunces

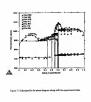
A theoretismen description of in 15 feb fromy species of the smolths place equilibrium and descriptional data. The success relation model are send to represent the Olite energy of the logal place. The convention place was model or as the composals. The place August and from the composals properties of the species have considered by assign the expension of the properties of the species have considered as the contribution of properties. These are assisted approach the beautiful properties of the contributions of the species equilibrium of the contributions data would be a first inverse the call beautiful properties.





Figure 3.1 Editolynia of Sacandon of the acompanies in the larke system. Securios of composition.









expenses of the control of control of the best of any other degrees an



Figure 5.1 Compensate between the calculated in-Su phose degrees and various degrees and determined data on the vaccinty of Su-cuch associative gap.



PROFES ASSESSED.

Pigure 5 in Compensate between the calculated to the phase diagram and vacual impervational data \$ part 0.3 to 0.00 units finance of \$6.



beyord in phose on the reference state







Figure 5 IP Assessed and measured has capacity data for $\delta\omega_{c}$



CRAPTER 6

P 1 Incedus

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6.2 Process Wark on KIP-C

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19 record prisoner Science and en respecting descent (i.e. to set for jobs.

91. Geb 12]. The prisoners represed bed bridge and informat problems, expensible with 360-consist plans section. The hidding into section was higher Co-rements and form some time. The device medicine date approach had no efficiency (15), the lifest 200°C on remedical and Millionia (15) is well-detained.

The field operands and EEP to proposition Cultule, Alim et al. (a), 3(1) and from translate analogous (CL per) Orders, to producing large-ground Culture, C-300 pm). This approach softward laves the review region incorporation and Culture, incorporation part of the complete companion of the development of high temperature and other delicits and are reserved under the collection of the Con-

It is toward from this rever their the pressure distribution and the relational states about the states of the relational states and the relational states are remaind above performance. For complex making by their \$10 pleased a stifficial calminal articles prilitary which the pressure rate from thy many produce of passe Eq. by an about the relation produces the results of their \$1.5 towards of passes and their interest and their pressure of from the produce of the passes and their interest and their produces the passes and their produces of their proposals last to CES.

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Figure 4.4 In Selenny T. s place dogs

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6.4 Frameur Drovok

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Figure 7 Assessment sugment stress interests interests into a special years

6.5 Repli Thermal Program

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Figure 6 & Temperature cultimore samp



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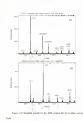
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7 Keesly and Photograph Resource Streeting 5

Two pressures visuatures were debruised. This first one pressures a three liqued structure, India-CulrifusCulde. The neural one possesses a two layered structure.

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Figure 6.12 XRD speaks of previous files occurred at (a) 2.5° analysis and (b) x^* and the scale

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Figure 6.13 Kamus species at two minimizes sometimples $|\psi\rangle\lambda$ = 677 ms and $|0\rangle\lambda$ = 106 ms required as the precusor file.

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Figure 5.14 FXGED spectrum of the Sian often KTF at 270°C (SE temperature) for 7





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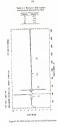
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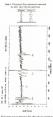
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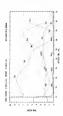
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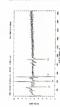




Figure 9-21 AES depth gratific of the blockflor AEV at 550°C.

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Figure 6.26 XXXI spectrum for lacks being reference rample



Figure 4.27 XMO spectrum for Cu-Sc benuty reference we







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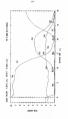


Figure 6.70 A&S depth profile of the percursor environment

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Figure 6.34 Photo-movies consol metro-graph is the same size of these





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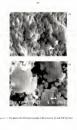




Figure 6.31 XXXD specimen for in-Code Blen of or BTF with comprison 3.7C



Figure 6 3s XXX depth peoble of the youcasse structure (i



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Figure 6.18 (Secretors of the orbit coar & Stream growth mod



Figure 8.29 Electrons of the Squal second grants we began for press



Figure 6.43 Electricum of the Squid assisted growth mediatron for processmenter 8.

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$$\chi(k) = \sum_{i=1}^{N} (A_i^{i,j})^i (\log p(-1k^i x^i) \exp(-\frac{2R}{14k^i}) \log(2kk^i + \delta_i/k))$$
 (1.6)

Hery full to the jk continuous delit j_i is the serving resonance dynamic, $j_i j_j$ is the plane of a represental j_i through j_i the j_i continuous points N_i and j_i the formal and of the continuous angular continuous angular and j_i are the continuous angular and j_i and



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$$\sigma_{\alpha}^{+}(T) = \frac{8}{M_{\alpha}\sigma_{\alpha}} \left(\frac{1}{2} + \frac{2}{\pi^{2\alpha_{\alpha}} k_{\alpha}^{-1} + 1} \right)$$
 (7.76)

nders M, is the reloced mass of shocking state and businessesses

$$\sigma_{\alpha}^{*}(I) = \frac{\delta}{3M_{\star}} \frac{3\alpha}{\alpha_{\star}^{2}} \left[1 - \frac{3\alpha(\alpha E_{\star}^{2}/\nu)}{\alpha E_{\star}^{2}/\nu}\right] \cosh \frac{\delta \alpha}{3E_{\star}^{2}} \delta \frac{d\alpha}{\alpha}$$
 (14)

$$m_0 = \frac{3}{2\pi k_1^2 \Omega_0}$$
, $\nu = \frac{m_0}{k_0}$, and $k_0 = (\frac{2\pi}{N})^{\frac{N}{2}}$. (2.3)

for the side polyte companion, N is the number of stones and V in the crystal

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Experiment VAPS Assured

system for X-PS experiments. A schemes degran for the experimental people above on Figure 7.3.



Figure 7.1 Belansias diagram for XAFS expens

TABLE OF STREET

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$$2d' \pi \chi_i \theta = \frac{kc}{K} = \frac{2\sigma}{\zeta k' + k' + \epsilon'} \cos \theta$$

where this is the corresponding value place rather. Thus we can solve the dense X ray arrange for elements $\hat{\theta}$

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2.4 Consequence Efficience on the Local Servinors of Collection

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The samples were enalyzed by ICP remotion spectrometry for the assume many of



Figure 7.5 Schomatic dragram of chalcopyrate structure for Cultri

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Table 7.1 Chemical sushess of the communical session

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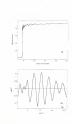
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$$\chi(k) = \frac{\chi(k) - \chi_1(k)}{2\mu_1(k)}$$
 (7.10)

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Figure 2.7. Co.K. olgo: DSAPS in red space transformed using a weedness in 2 to 12.4 for Colodin, remplay I and Eff. In Paper 7 is the Fourse Shared CACHS on the Co-K stay for did don singled probled supplied 11, 18 and shared. The first shall ESAAS Steen shoot days satisfued information. This reduced in resource suppliers are supplied to assess any observed at that their samples. On their operations in observed the steeled ESAAS supplied (1) was seen (1) the 12 to the first course make supplied.

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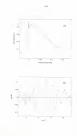




Figure 7.9 ob Absolption is a Social of photos energy at the CurK edge in CaleSo, at 295 K. 95 Cu-K edge CSCAFS explication, $F_2(k)$, as a Sanoco of k other hadium and removed of Facure countries of this to not page. The paradhon window is $0 \times 12 \text{ A}^2$

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Figure 7 19 Co-K edge (in 1759) EXMES operat, and (in magnetoke of the Fourtreature for Colondo.



Figure 7.11. Flavor filtered ESAPS on the Cu K adjuster the dark shell peaks or Cultifle, and Cultifle, $\delta n_{\rm p}$



Figure 7.12 Litate aguars list to the Power-Mirror first shall Co. K-edge it resigned up that of Coloube. (The date for Coloube, and reference Colobe, wars Shand uses a



Figure 7.13 A solventer drawing of the Cu Sint nearest neighbor local susuaure

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Figure 7.14 Magnitudes of the Found assertion of the In-K origin EXAFS. $d^2\chi(0)$ to Colodin.



Figure 7.13 Fower Bhared CXAPS us the In K objector the date shed peaks as Cubal and Colladia.



Figure 7.17 Level report to to the Process Blogad Stat. shall in K-edge X'-swighted gally date of Collection. The data for Collection and reference Calculor, was altered over an absorbed reservation area. Cons. 17 on 17.5



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Figure 7.20 Lines open tils in the Eneme-Shreet first shell So K object? weighted yith date of Calabia.

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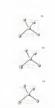
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Figure 7.22 Lead-square like in the Proposition of Eric shall So-E. sign A'-weighted 55E, Adm of Calledin.

Table 7.7 EXAES analysis results 1 Colonian Ser S. selpe data

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Figure 7.23 Crysel streeture of Culode, as (s) statiogram (b) CuAs biz: and (a) positive places. For clarg this fire street are not shown. The loss with active goes for previous and odd lattice vaccious fall three streetures.



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$$(2.10)$$

A plot of $d(t_i)$, $\omega(t)$ and $d(t_i)$, $\omega(t)$ vs. $\tau_i(t)$ is given at Figure 7.24. The approximate features the values of $d(t_i)$, $\omega(t)$ and $d(t_i)$, $\omega(t)$ and $d(t_i)$ is (t_i) and (t_i) and (t_i) and (t_i) and (t_i) is an interest of the approximate (t_i) and (t_i) is an interest of the approximate the approximate (t_i) and (t_i) is a substantial and (t_i) and (t_i) in a substantial and (t_i) and (t_i) is a substantial and (t_i) .

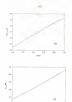


Figure 7.25 (a) $\delta \delta_{11...6}$ /dx and (b) $\delta \delta_{11...6}$ /dx vs. a filed (a=2.752 Å, γ =0.005)

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CONCLUSIONS AND FUTURE WORK

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